

[Document Name] Abstract

It is intended to provide a method for producing a catalyst for olefin polymerization which exhibits excellent catalytic activity in a polymerization treatment and permits production of a polymer excellent in stereoregularity, melt flowability, etc., even when the polymerization catalyst is prepared in an inert gas atmosphere by using a solid catalytic component comprising an electron-donating compound other than a phthalic acid ester. The method for producing a catalyst for olefin polymerization comprises performing a pre-contact treatment of bringing a solid catalytic component (A) comprising a magnesium atom, a titanium atom, a halogen atom and an electron-donating compound having no phthalic acid ester structure, a specific organoaluminum compound (B) and an external electron-donating compound (C) into contact with each other at a temperature of lower than 15°C for a time of 30 minutes or shorter in the absence of the olefin.